comprising a cocatalyst and a catalyst component, wherein the catalyst component is supported on a porous inorganic solid, wherein the catalyst component is {characterized in that is} defined by {general formulas} formula I or II

$$(L(R)_{a})_{x}MX_{y} \qquad I$$

$$(R)_{a}$$

$$L_{1}$$

$$L_{2}$$

$$(R)_{b}$$

$$II$$

wherein:

R{,} groups are equal to or different from each other;{,} \underline{R} is hydrogen or a radical {which contains} containing from 1 to 20 carbon atoms; {this group} \underline{R} optionally contains {heteroatoms} \underline{a} heteroatom selected from the group consisting of elements from groups 14 {to} through 16 of the periodic table of the elements and boron; at least one {group} \underline{R} group contains {a group} \underline{an} OSiR"₃ group, wherein \underline{R} " is selected from the group {comprising} consisting of: linear or branched \underline{C}_1 - \underline{C}_{20} alkyl, \underline{C}_3 - \underline{C}_{20} cycloalkyl, \underline{C}_6 - \underline{C}_{20} aryl, \underline{C}_7 - \underline{C}_{20} alkenyl, \underline{C}_7 - \underline{C}_{20} arylalkenyl, {consisting of: and \underline{C}_7 - \underline{C}_{20} alkylaryl{, linear or branched};

Q is selected from {a group comprising} the group consisting of: boron {or an element} and elements from groups 14 {or} and 16 of the periodic table{,}; when m > 1, {groups} Q groups are equal to or different from each other; {the} free valences of every Q are filled with {groups} the R group or groups according to {the} a value of c {index}; two {groups} R groups optionally are united to form a ring having from 5 to 8 atoms; m {value range} ranges from 1 to 4;

L{,} groups are equal to or different from each other{,}: L

is a cyclic organic group united to M through a π bond, \underline{L} {it} contains a cyclopentadienyl ring{,} that optionally is fused with one or more other rings, or {it} \underline{L} is an atom selected from the group consisting of elements from groups 15 {or} and 16 of the periodic table;

 L_1 and $L_2\{,\}$ <u>are</u> equal to or different from each other $\{,\}$; L_1 and L_2 have the same meaning $\{of\}$ <u>as</u> L;

M is a metal <u>selected</u> from <u>the group consisting of: elements</u> from groups 3, 4, <u>and</u> 10 of the periodic table, {lanthanide or actinide} <u>lanthanides</u>, <u>and actinides</u>; {.}

- X{,} groups are equal to or different from each other{,}; X is selected from {a} the group {comprising} consisting of: halogen, hydrogen, OR"', N(R"')₂, C₁-C₂₀ alkyl, and {or} C₆-C₂₀ aryl; wherein R"' is selected from the group {comprising} consisting of: linear or branched C₁-C₂₀ alkyl, C₃-C₂₀ cycloalkyl, C₆-C₂₀ aryl, C₇-C₂₀ alkenyl, C₇-C₂₀ arylalkyl, C₇-C₂₀ arylalkenyl, and {or} C_7 -C₂₀ alkylaryl{, linear or branched}; x is 1 or 2, y is 2 or 3 in such a way that x + y = 4;
- **a** is 1 or 2, **y** is 2 or 3 in such a way that $\mathbf{x} + \mathbf{y} = 4$; **d** is an integer ranging {ranges} from 0 to 2; and **a**, **b** and **c** are integers from 0 to 10{,} in such a way that $\mathbf{a} + \mathbf{b} + \mathbf{c} \ge 1$.
- 2. (amended once) A catalyst {Catalyst component} according to claim 1 wherein in formula I or II {characterized in that} R is selected from the group {comprising} consisting of: hydrogen, SiR'3, linear or branched C_1 - C_{20} alkyl, C_3 - C_{20} cycloalkyl, C_6 - C_{20} aryl, C_7 - C_{20} alkenyl, C_7 - C_{20} arylalkyl, C_7 - C_{20} arylalkenyl, and {or} C_7 - C_{20} alkylaryl, {linear or branched or a group SiR'3} wherein R' is selected from the group consisting of: OSiR"3, linear or branched C_1 - C_{20} alkyl, C_3 - C_{20} cycloalkyl, C_6 - C_{20} arylalkenyl, C_7 - C_{20} alkylaryl, C_7 - C_{20} arylalkenyl, and {or} C_7 - C_{20} alkylaryl{,

linear or branched or $OSiR"_3$ at least one {group} R group contains {a group} an $OSiR"_3$ group, wherein R" is selected from the group {comprising} consisting of: linear or branched C_1 - C_{20} alkyl, C_3 - C_{20} cycloalkyl, C_6 - C_{20} aryl, C_7 - C_{20} alkenyl, C_7 - C_{20} arylalkenyl, and {or} C_7 - C_{20} alkylaryl{, linear or branched}; and optionally all {these} the R groups contain a heteroatoms selected from the group consisting of: elements of groups 14 {to} through 16 of the periodic table of the elements and boron.

- 3. (amended twice) A catalyst (Catalyst component) according to claim 1 wherein in formula I or II (characterized in that) M is selected from the group (comprising) consisting of: Ti, Zr, and {or} Hf.
- 4. (amended twice) A catalyst {Catalyst component} according to claim 1 wherein in formula I or II {characterized in that} the {group} R group containing the group OSiR" is selected from the group {comprising} consisting of: -CH₂-CH₂-OSiMe₃, -CH₂-CH₂-CH₂-CH₂-OSiMe₃, -CH₂-O-CH₂-OSiMe₃, -O-CH₂-CH₂-OSiMe₃, and -SiMe₂-CH₂-OSiMe₃.
- 5. (amended twice) A catalyst {Catalyst component} according to claim 1 wherein in {characterized in that in the general} formula I{,} L is cyclopentadienyl or indenyl; M is zirconium; \mathbf{x} is 2; \mathbf{y} is 2; R is C_1 - C_4 alkyl, wherein at least one hydrogen of one R is substituted with OSiR", wherein R" is selected from the group {comprising} consisting of: Me, Et, and Pr.
- 6. (amended twice) A catalyst (Catalyst component) according to claim 1 wherein {characterized in that} in {the general} formula II, M is zirconium; L_1 and L_2 are cyclopentadienyl or indenyl

{group}; R is hydrogen, a C_1-C_4 alkyl wherein at least one hydrogen of one R is substituted with $OSiR''_3$ or a $SiR'_2-OSiR''_3$ group, wherein R" is selected from the group {comprising} consisting of: methyl, ethyl, propyl; [(R)_CQ]_m is H_2C-CH_2 , $CRH-CH_2$, $RHC-SiR'_2$, $R_2C-SiR'_2$, and {or} SiR'_2 , and {or} SiRR'.

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- 7. (amended twice) A catalyst (Catalyst component) according to claim 1 wherein {characterized in that} in {the general} formula II, M is titanium; L_2 is an oxygen or a nitrogen atom; L_1 is a cyclopentadienyl, indenyl or fluorenyl ring; $[(R)_cQ]_m$ is H_2C-CH_2 , $CRH-CH_2$, $RHC-SiR'_2$, $R_2C-SiR'_2$, or SiRR'.
- 9. (amended once) A catalyst {Solid catalyst component} according to claim 1 wherein {8 characterized in that} the porous inorganic solid is selected from the group {comprising} consisting of: silica, alumina, silica-alumina, aluminum phosphates, and mixtures thereof.

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- 10. (amended twice) A process for preparing {Process for the preparation of} a polymerization catalyst according to claim 1 {solid catalyst component} comprising the following steps:
 - (a) impregnation, under ahhydrous conditions and <u>an</u> inert atmosphere, of a solution of at least one <u>catalyst</u> <u>component defined by formula I or II</u> {catalyst component according to claims 1,} on {the supporting material} on a <u>support</u> at a temperature between -20°C and 90°C;
 - (b) filtration and washing with a solvent{,} selected from the group consisting of aliphatic hydrocarbons and {or} aromatic {hydrocarbon} hydrocarbons.
- 11. (amended twice) A process for preparing {Process for the preparation of} a polymerization catalyst according to claim 1 {a

solid catalyst component} comprising the following steps:

- (a) depositing at least one catalyst component defined by formula I or II {the catalyst component according to claim 1} on {the} a support{,} by using a solution of the {compound} datalyst component to heterogenize;
- (b) eliminating {the} solvent through evaporation to yield a solid residue;
- (c) warming the solid residue up to temperature between 25 and 150°C.
- 12. (amended twice) A process as claimed in Claim 10, wherein {Process for the preparation of a solid catalyst component according to claim 10 characterized in that} before step (a) the catalyst component is mixed with a cocatalyst.

14. (amended twice) A {Polymerization} catalyst according to claim 1 wherein {13, characterized in that} the cocatalyst is selected from {a} the group {comprising} consisting of: alkylaluminoxane, boron { {compounds, {or} and mixtures {mixture} thereof.

Please add the following new claims.

- the catalyst component is mixed with a cocatalyst.
- 20. A catalyst as claimed in Claim 1, wherein the catalyst is for the polymerization of alpha-olefins in solution, in suspension, in gas phase at low and high pressure and temperature or in mass at high pressures and high or low temperatures; and wherein the catalyst component is a metallocene complex.

- 21. A catalyst according to claim 2, wherein in formula I or II M is selected from the group consisting of: Ti, Zr, and Hf.
- 22. A catalyst according to claim 3, wherein in formula I or II M is selected from the group consisting of: Ti, Zr, and Hf.
- 23. A catalyst according to claim 2, wherein the porous inorganic solid is selected from the group consisting of: silica, alumina, silica-alumina, aluminum phosphates, and mixtures thereof.
- 24. A catalyst according to claim 4, wherein the porous inorganic solid is selected from the group consisting of: silica, alumina, silica-alumina, aluminum phosphates, and mixtures thereof.
- 25. A catalyst according to claim 5, wherein the porous inorganic solid is selected from the group consisting of: silica, alumina, silica-alumina, aluminum phosphates, and mixtures thereof.
- 26. A catalyst according to claim 6, wherein the porous inorganic solid is selected from the group consisting of: silica, alumina, silica-alumina, aluminum phosphates, and mixtures thereof.

REMARKS

This response is being submitted within one month after the shortened one-month statutory period set for responding to the Office Action mailed on April 26, 1999. Therefore, a petition and fee for a one-month extension are enclosed herewith.

This response cancels Claims 8, 13, and 15-18; amends Claims 1-7,